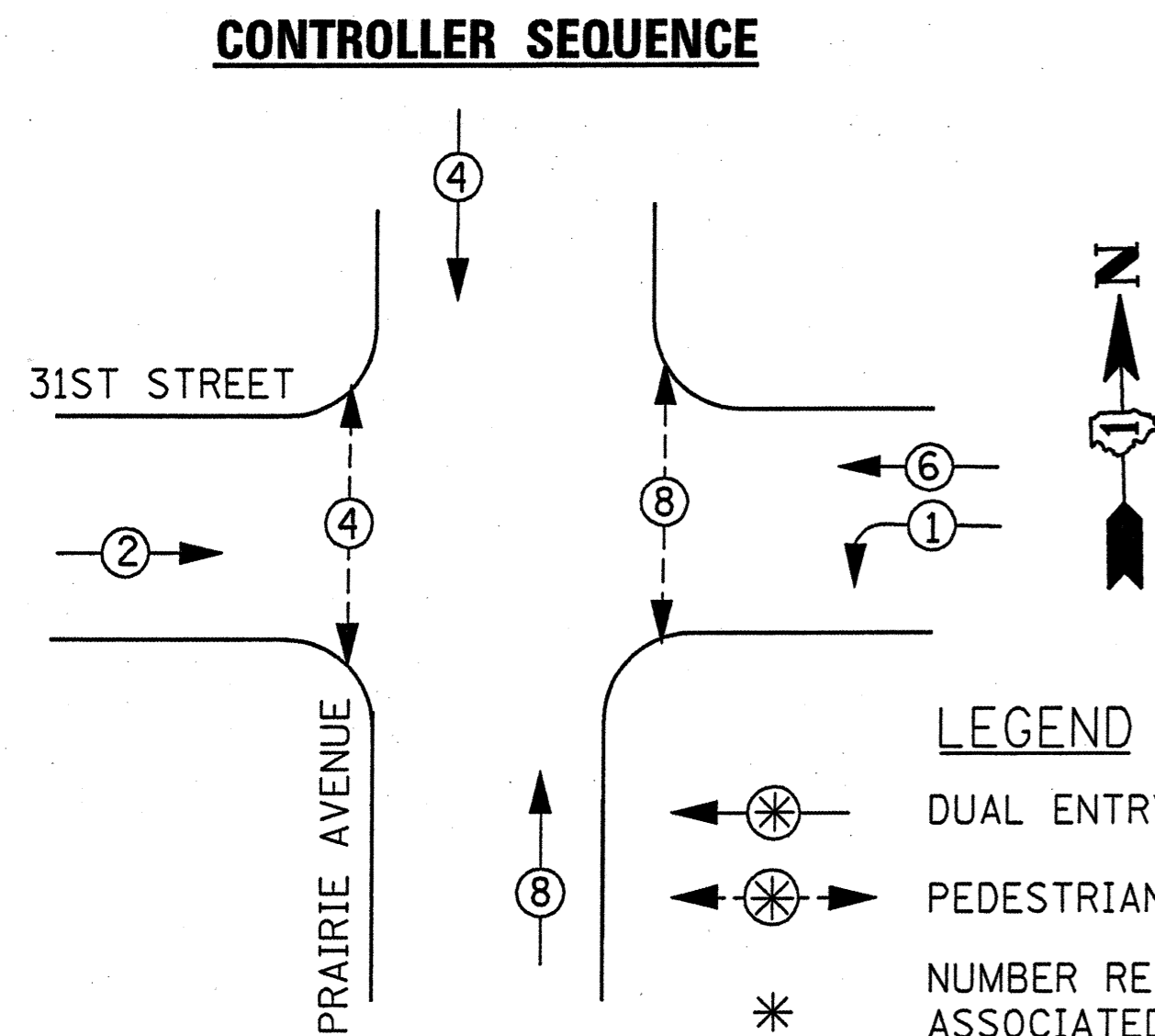


REF-  
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**LEGEND**

- DUAL ENTRY PHASE  
PEDESTRIAN PHASE  
NUMBER REFERS TO ASSOCIATED PHASE

EXISTING INTERSECTION AND PROPOSED SAMPLING (SYSTEM) DETECTORS

TRACER CABLE

PROPOSED INTERCONNECT TO 17TH AVENUE (SEE INTERCONNECT PLANS)

NOTE: THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET

**CABLE PLAN**

**SCHEDULE OF QUANTITIES**

**QUANTITY UNIT ITEM**

0.09	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
0.09	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
0.09	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
1.00	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1.00	EACH	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT
1.00	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
4.00	EACH	PEDESTRIAN PUSH-BUTTON
1.00	EACH	TRANSCEIVER-FIBER OPTIC
1.00	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
17.70	METER	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
17.70	METER	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
72.10	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
227.70	METER	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR
11.60	METER	REMOVE ELECTRIC CABLE FROM CONDUIT

**QUANTITY UNIT ITEM**

4.00	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED
6.00	EACH	INDUCTIVE LOOP DETECTOR
4.00	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
3.00	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1.00	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
3.00	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1.00	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2.00	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1.00	EACH	SERVICE INSTALLATION, POLE MOUNT

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	2000-044TS	COOK	32	26
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

**CABLE PLAN LEGEND**

EXISTING	PROPOSED	
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED.
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
		SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
		GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	WATTAGE
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	12	135	25	0.25	75.00
(GREEN)	12	135	15	0.25	45.00
ARROW	4	135	12	0.10	4.50
PED. SIGNAL	4	90	25	1.00	100.00
CONTROLLER	100	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096					TOTAL = 426.50
ENERGY SUPPLY CONTACT: MIKE STEVENS PHONE: 708-410-5117 COMPANY: COMMONWEALTH EDISON					
12/12/2003 C:\pdr\electrs\118800\118800ga.m32 BEACOMRD					

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'=(6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
EMERGENCY VEHICLE PREEMPTION SEQUENCE  
AND SCHEDULE OF QUANTITIES

31ST STREET  
AT  
PRAIRIE AVENUE

SCALE: NONE  
DATE: 12/11/2003

DRAWN BY: RDB  
DESIGNED BY: SM  
CHECKED BY: DAD